

# SERVICING INFORMATION

 **BK PRECISION®**

**MODEL 480**

## CRT TESTER/REJUVENATOR

### PARTS LIST

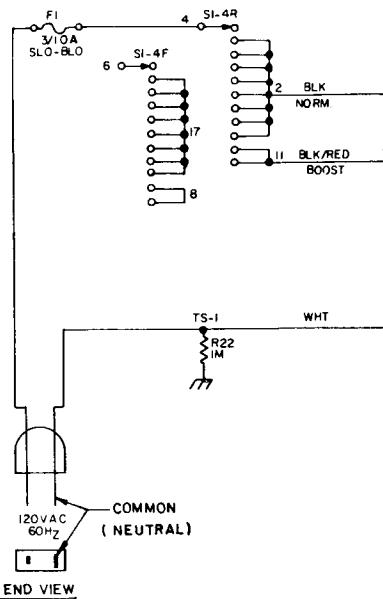
488-321-9-002

SCHEMATIC SYMBOL	DESCRIPTION	B & K-PRECISION PART NO.
<b>ELECTROLYTIC CAPACITORS</b>		
C1	5 $\mu$ F, 250 VDC .....	021-018-9-001
C2, 3	50 $\mu$ F, 450 VDC .....	021-056-9-001
<b>DIODES</b>		
D2	Germanium Diode, 1N67 .....	150-008-9-001
D1, 3-9	Rectifier, 600 PIV, 1 A .....	151-050-9-001
<b>RESISTORS AND CONTROLS</b>		
Standard value resistors are not listed. Values may be obtained from schematic diagram.		
R1	3 $\Omega$ , $\pm 10\%$ Linear, 12-1/2 W, Wire Wound Pot .....	009-038-9-001
R3	50 k $\Omega$ , $\pm 10\%$ Linear, 1/2 W, Carbon Pot .....	008-135-9-001
R6	1 M $\Omega$ , $\pm 1\%$ , 1/2 W, Metal Film Resistor .....	011-061-9-001
R7	50 k $\Omega$ $\pm 30\%$ , Horizontal Mount Linear Trimmer Pot .....	008-224-9-001
R9	49.9 $\Omega$ , $\pm 1\%$ , 1/4 W, Metal Film Resistor .....	011-218-9-001
R10	1 k $\Omega$ , $\pm 30\%$ , Logarithmic Taper Carbon Pot .....	008-213-9-001
R11	0.99 $\Omega$ , $\pm 1\%$ , 1/2 W, W.W. Resistor .....	004-115-9-001
R13, R14	2.5 k $\Omega$ , $\pm 10\%$ , 7 W, W.W. Resistor .....	014-007-6-252
R15	4.7 $\Omega$ , $\pm 10\%$ , 1/2 W, W.W. Resistor .....	006-102-9-479
R17 - 19	200 k $\Omega$ , $\pm 10\%$ , 2 W, Pot .....	008-819-9-001
<b>SWITCHES</b>		
S1	11-Position Rotary Switch (Function) .....	083-168-9-001
S2	3-Position Rotary Switch (Gun Selector) .....	083-170-9-001
S3	6-Position Rotary Switch (Htr. Range) .....	083-091-9-001
S4	Pushbutton Switch 3PDT Momentary .....	088-026-9-001
(OR)	Pushbutton Switch 4PDT Momentary (ALT. S4) .....	088-188-9-001
<b>MISCELLANEOUS</b>		
F1	Fuse 3/10 A, 250 V, 3 AG Slow-Blow .....	190-004-0-001
PL1	Neon Bulb, NE-2 with 7" Leads .....	401-016-9-001
T1	Power and Filament Transformer (120 V) .....	065-105-9-001
	Power and Filament Transformer (120/240 V) .....	065-105-9-002

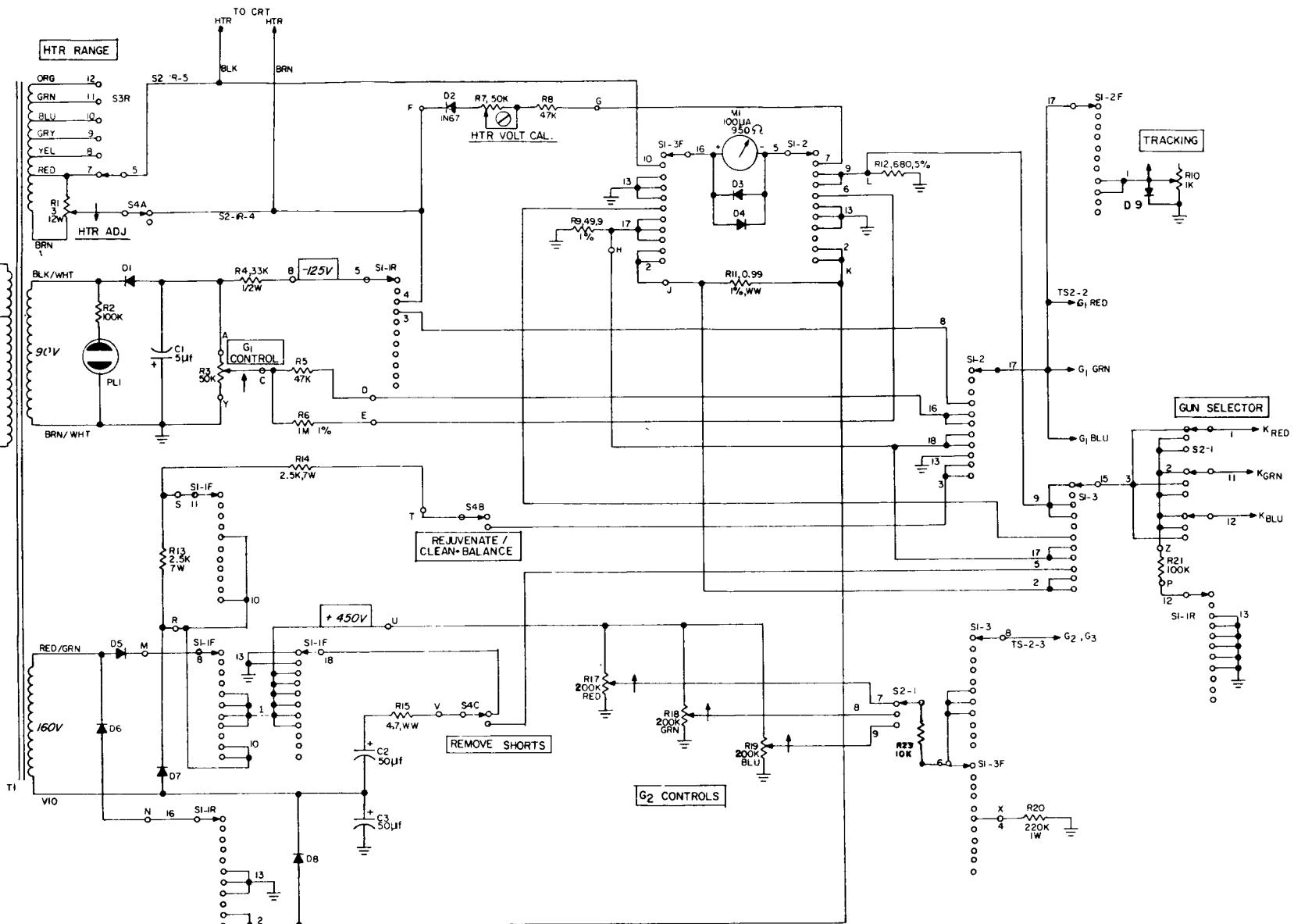
**COMPOSITE**  
**499-383-9-001**



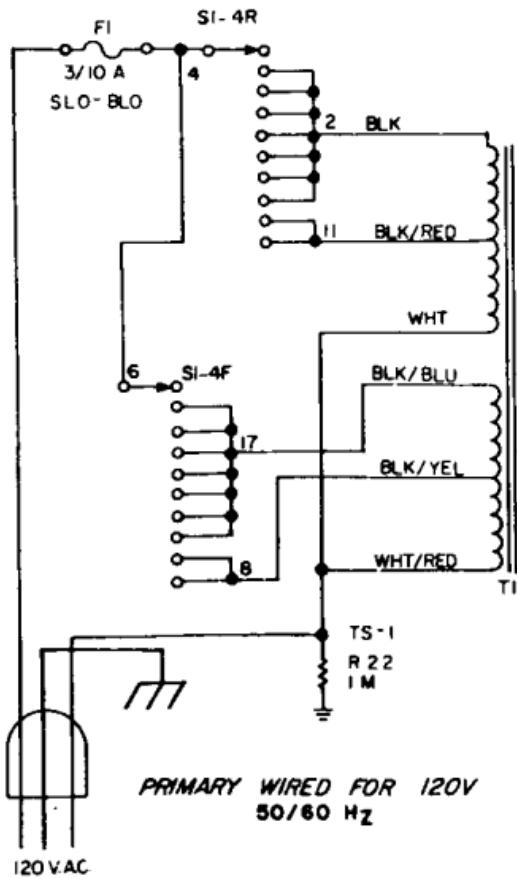
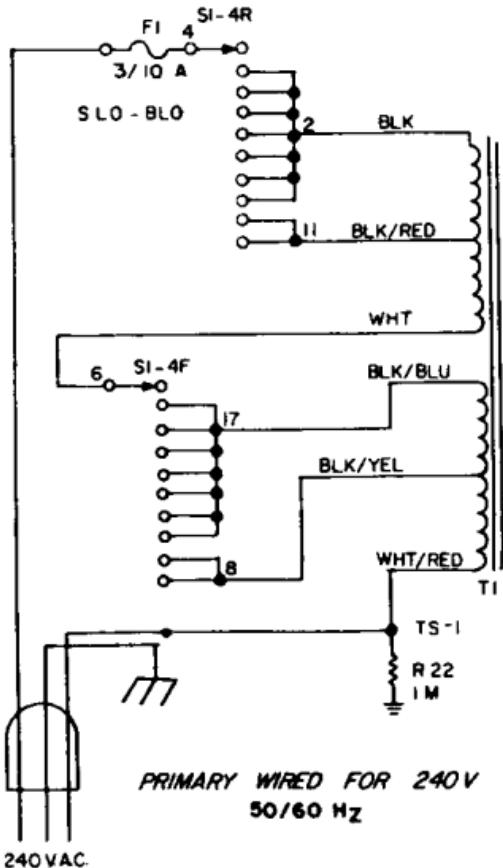
MODEL 480  
488-321-9-001



LAST NUMBER	NOT USED
C3	
D8	
F1	
M1	
PL1	
R23	16
S4	
T1	
TS2	



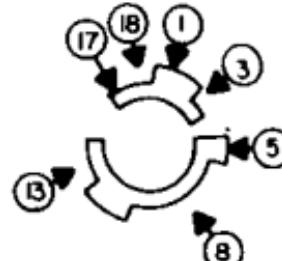
EXD (EXPORT MODEL)



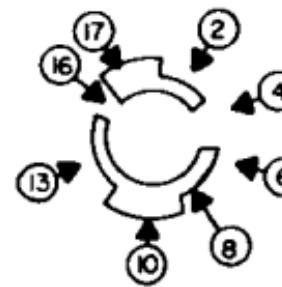
PICTORIAL VIEW OF SWITCH WAFERS



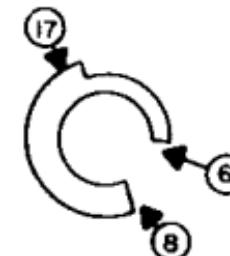
SWITCH 1, 1 FRONT



SWITCH 1, 2 FRONT



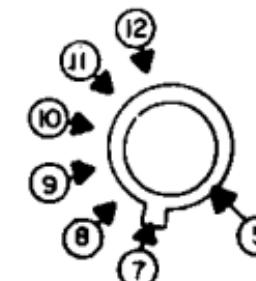
SWITCH 1, 3 FRONT



SWITCH 1, 4 FRONT



SWITCH 2, 1 FRONT



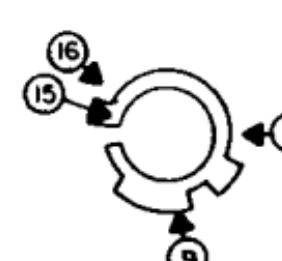
SWITCH 3, 1 FRONT



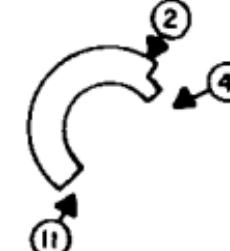
SWITCH 1, 1 REAR



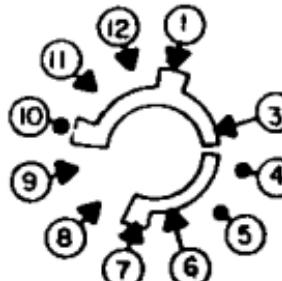
SWITCH 1, 2 REAR



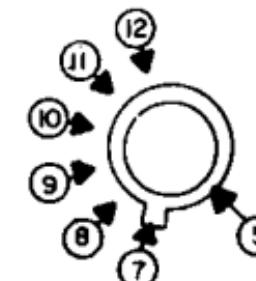
SWITCH 1, 3 REAR



SWITCH 1, 4 REAR



SWITCH 2, 1 REAR



SWITCH 3, 1 REAR

ALL SWITCH WAFERS VIEWED FROM FRONT (KNOB END) WITH SWITCH IN FULL COUNTER-CLOCKWISE POSITION.

**OUTPUT CABLE**

WIRE COLOR	FUNCTION	PIN NO.
BLK	HTR	1
BRN	HTR	2
GRY	G <sub>1</sub> RED	3
TAN	G <sub>1</sub> GRN	4
PUR	G <sub>1</sub> BLU	5
RED	K RED	6
GRN	K GRN	7
BLU	K BLU	8
ORG	G <sub>2</sub> RED	9
YEL	G <sub>2</sub> GRN	10
PINK	G <sub>2</sub> BLU	11
WHT	G <sub>3</sub> / G <sub>4</sub>	12

FUNCTION	FUNCTION
S1=	1 POWER OFF 2 SET HEATER 3 HTP LEAKAGE 4 G <sub>1</sub> LEAKAGE 5 SET G <sub>1</sub> VOLTAGE 6 SET G <sub>2</sub> CUTOFF VOLTAGE 7 READ EMISSION 8 SET COLOR TRACKING 9 REMOVE SHORTS 10 CLEAN • BALANCE 11 REJUVENATE
S2=	1 RED/B&W 2 GREEN 3 BLUE
S3=	1 0-4 2 4-7 3 7-9 4 8-11 5 10-12 6 12-14
S4=	REMOVE SHORTS CLEAN • BALANCE REJUVENATE

**NOTES:**

- 1 UNLESS OTHERWISE SPECIFIED  
 2 ALL RESISTORS 1/2W, 10%.  
 3 ALL DIODES 1A, 600V.  
 4 ARROWS ON POT. WIPERS INDICATE DIRECTION OF  
 CLOCKWISE ROTATION.  
 5 SCHEMATIC IS SUBJECT TO CHANGE WITHOUT NOTICE.

 CIRCUIT COMMON

 CHASSIS CONNECTION

**MISCELLANEOUS (Continued)**

M1	Meter .....	320-061-9-001
	Line Cord (U.S./CSA Version) .....	420-013-9-001
	Line Cord (Export Version) .....	420-070-9-001
	Knob, Function .....	751-353-9-001
	Knob, Small .....	751-351-9-001
	Knob, Gun Selector and Htr. Range .....	751-352-9-001
	Knob, Pushbutton Black (S4) .....	384-016-9-006
	Knob, Pushbutton Black (for ALT. S4) .....	384-128-9-001
	Lens Cap, Red .....	750-003-9-001
	Tube Chart .....	497-022-0-000
	Instruction Manual .....	480-640-9-001
	Output Cable Assembly .....	427-013-9-001
	Plastic Insert (For Chassis) .....	380-627-9-001
	Adaptor Holder Assembly .....	524-030-9-001
	Foam (For Adaptors) .....	388-131-9-001
	Case Assembly, Complete .....	524-031-9-001
	Case Top (ONLY) .....	271-487-9-001
	Case Bottom (ONLY) .....	271-488-9-001
	Latch, Case (ONLY) 2 Req'd .....	754-008-9-001
	Case Nameplate (ONLY) .....	600-197-9-001

**PARTS ORDERING INFORMATION**

There is a minimum charge for each invoice. Orders will be shipped C.O.D. unless previous open account arrangements have been made or remittance accompanies order. Advance remittance must cover handling, postage, or express charges. Specify model and serial number when ordering replacement parts.

**ORDER REPLACEMENT PARTS FROM:**

B & K-Precision  
Factory Service Operations  
6470 West Cortland Street  
Chicago, Illinois 60635  
Telex: 25-3475



**BK PRECISION®**

6470 W. Cortland St. • Chicago, IL 60635